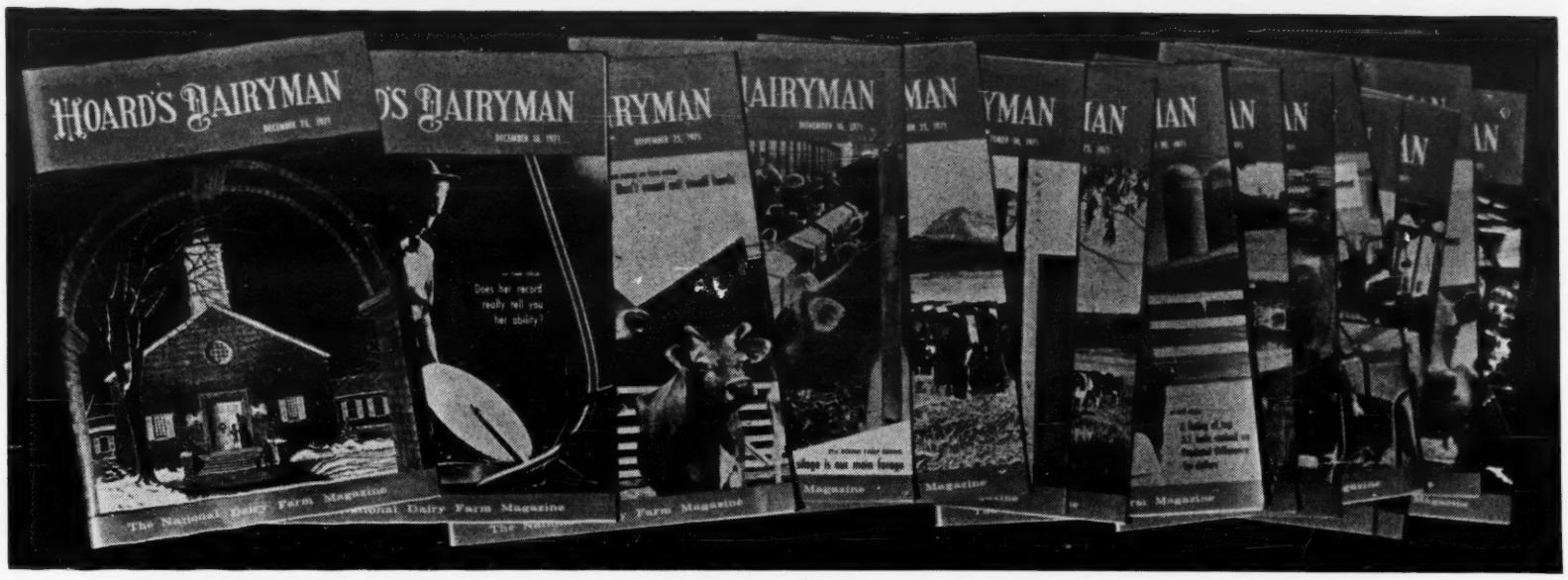

Here is your 1971 . . . index to profitable dairying

Index to Volume 116

HOARD'S DAIRYMAN

W. D. Hoard and Sons Company, Publishers
Fort Atkinson, Wisconsin 53538

All pages followed by a letter and an (E) are found in the eastern regional edition only.

— A —

Page

Abomasum—displaced .. 526
Abortions—IBR 10-612
Accounting—enterprise .. 1186
Acetonemia — feed to combat 1334
-symptoms 125
Adams, H. P., to Oregon 1214
Advertising—ADA ..... 35-..... 99-971-1029
-California milk promotion 520-755-975
-4-H Ideas 470
-New York milk promotion ..... 366B (E) 986
-Nixon approves promotion measure 116
-scoreboard 141
-UDIA efforts 546
-Utah milk promotion .. 777
-Wisconsin milk promotion vote 97-1058
African swine fever .. 965-998
Afterbirth—cows eat 794
-retained 334-602-834
Agricultural Stabilization and Conservation Service — cost sharing for waste handling 315
Agriculture — technical, training 1312
Air compressor — ratings 669
Alabama — TMS cytoplasm seed banned in ..... 522A (E)
Alaska — dairying 1244
Albrecht, R. D., Holstein fieldman 459
Alfalfa — anthracnose-resistant, developed 1349
-bees up, seed yields 700
-harvesting 685
-hybrid patent 1029
-management 807
-nitrate nitrogen used by 1334
-populations 439
-potassium need 741
-seed yields (hybrid bees) 700
-seeding rate 10
-seeding without companion crop 271
-selection for nutritive value 944
-stand establishment 283
-straw mulch 1010
-temperature affects quality 266
-weed control (after freeze down) 1062
-weed control (herbicides) 616
-weevil-resistant 425
-yields (seeding year) .. 271
Alfalfa weevil—Egyptian 494
-parasite control 495
Algae — phosphorus and, growth 806
Allergy — milk 750
Alleys — concrete for barn 73
Alto Cooperative Creamery—formed 1170
American Dairy Assn.—advertising (fall milk promotion) 1029
-advertising (new milk selling theme) 35
-annual meeting 547
-TV advertising schedule 971
-TV specials 99
-Wheeler named advertising director 39
American Dairy Princess —Gayle Krogstad 851
American Dairy Science Assn. — annual meeting 814
American Forage and Grassland Council—conference ..... 1246A (E)
-Medallion Award 875
-officers 572
American Guernsey Cattle Club—annual meeting dates 531
American Heart Assn.—criticism of 233
American Jersey Cattle Club—annual meeting .. 826
-annual meeting dates .. 531
Ammonia—application 616-673
Anaplasmosis — crackdown needed 764
-Wisconsin crackdown 1358
Anestrus 90-208
Animal health confab — western states 99
Anthrax—Maryland herd 1020
Antibiotics — FDA limits, in udder infusions 829
-milk contamination .. 124-875
-using 350
Antifreeze — diluted 1129
Appalachia — dairying .. 1282
Appliances — small electric 235
Arizona — cholera-free .. 986
-microclimate cooling 721
Arrigoni, L., succeeds Pedersen 1276
Arsenic — poisoning 834
Artificial breeding — abnormal calves 864
-Alaska 1244
-conception rates 459
-Europe 1306-1357
-frozen semen (new health restrictions) 1170
-growth (1970) 983
-Israeli 232
-low return rate 769
-management 36
-research and development 580
-role in high milk production 910
-semen freezing 523
-sex ratio 387
-superiority of A.I.-sired cows 1278
Associated Milk Producers, Inc.—annual meeting plans (second) .. 891-981
-Arkansas division meeting 902
-Blair co-op loins 1316
-convention 1065
-4-H dairy award program 1170
-Houston milk order 925-981
-Iowa co-ops loin 39-1316
-Land O' Lakes attacks 422-423
-Mehren and Reeves loin 984
-merger discussions (three major dairy cooperatives) 1058
-Pure Milk Products Co-op merger 358-584
Atrazine — effect on ornamentals 363
Auger bits—sharpening .. 243
Ayrshire—national show 1178
Ayrshire Breeders' Assn. —annual meeting 745
-annual meeting dates .. 531

— B —

Page

Baidi, E. J., succeeds Johnson 1203
Bang's — eradication progress 79
-fetal immunization 20
-N. Dakota free 799
-N. Y. drops payments for, vaccination .. 1246A (E)
-S. Dakota 1026-1029
-vaccination urged 244
Barley — high-moisture (feeding) 718
Barn — addition 769
-alley repair 1017
-calf 418
-calf (cold) 1289
-calf (floor insulation) .. 1341
-calf, disinfectant 538
-free stall (alleys) 73
-free stall (drive-through) 354
-free stall (feeding arrangement) 207
-free stall (roof) 1185-1341
-free stall (ventilation) 425-808-1066
-gutter construction 901
-gutter grate selection .. 1283
-heifer 129
-heifer (D. Strobel) 1012
-insulation 1017-1238
-lean-to construction 813
-paint (latex) 853
-quonset, insulation 1185
-roof (cold free stall) .. 1185
-stall 201-849
-storm windows 955
-tie stall 665
-tie stall (insulation) 813
-ventilation 425-808
-windows 71
Barn cleaner — maintenance 70
Barnyard—paving 901-1341
Basement—mildew problem 901
-moisture problems .. 73-421-..... 813-1241
Battery—gas flammable 73
-tractor 565-813
Baylor, J. E., receives AFGC Medallion Award 875
Beauprez, J. (commercial registered herd care) 1335
Becher, N. (Holstein herd) 561
Bedding — management (winter) 218
Beef—dairy .....10-132-200-204-..... 554-1131-1148-1173-1301-1339
Beef registry — formed by Brown Swiss Cattle Breeders' Assn. 1003
Bees — hybrid, up alfalfa seed yields 700
Beet pulp—feeding with urea and molasses 1010
Beverage—orange juice-milk 846
Bills — farm bargaining 952
Bin — insulating bulk feed 955
Births — multiple (cystic ovaries) 602
Biuret—feeding 669
Blacklight trap (insert detection) 1334
Blindness—ammonia fertilizer exposure may cause 673
Bloat — chronic 706
Blocks—making concrete 207
-sawdust 853
Blood — analyses 440
-protein analysis 894
Board — square cutting 631
Boerema, G., named Family of the Year 639
Bookkeeping 460-1186
Boots—repairing rubber 502
Branding — freeze (unclipped) 1062
Braunschweig, H. A. (production increase) .. 265
Breeding — calving interval maintenance 1037
-fate's role in cattle 434
-health and relation to feeding 239
-low, efficiency costs 846
-management 36
-mulefoot genes 555
-poor matings 1059
-selection for milk production 809
-twinning 686
-weight changes 944
Bremel, W. (herd management) 1124
Brown, C., Holstein fieldman 986
Brown, K., joins Holstein staff 457
Brown Swiss — central national show 1178
-eastern national show .. 1204
Brown Swiss Cattle Breeders' Assn. — annual meeting 1290
-beef registry formed .. 1003
Brucellosis — eradication progress 79
-fetal immunization 20
-N. Dakota free 799
-N. Y. drops payments for vaccination .... 1246A (E)
-S. Dakota mop-up 1026-1029
-vaccination urged 244
Buckland, R. (new ideas in dairy operation) 212
Bulk tanks—cleaning 66
-selection 845
Bulls — care and maintenance 158
-feeding out dairy 1131
-list of top A.I. 946-954
-poor matings 1059
-registered market 640
-selecting 200-809
-selecting (Round Table) 68
Burke, J. D., retires 210
Burlingham, C. L., dies 811
Burns — treating 250
Business side of dairying .. 26-80-136-226-282-382-454-..... 518-586-634-680-958-1074-..... 1132-1186-1242-1267-1332
Butter — consumption .. 986
-future surpluses? (European Economic Community) 1085
-shortage (European Economic Community) .. 716
Butterfat test — conditions affecting 124
-limited roughage can cause low 514
-variations 763

— C —

Page

Cabs — tractor safety .. 718
Calcium - phosphorus ratios 778
Calculi 1262
Calf — dormitory 689
-176-pound Holstein 799
-135-pound 532
California — dairy day (dates) 399
-dairying (confinement) 1338
-doubles milk sales program 755
-dormitory calf 689
-milk promotion 520
-milk promotion (celebrities) 975
-milk promotion (press conference) 1126
Calves — abnormal 360-864
-bloat 706
-convulsions 650
-diphtheria 930
-disinfectant for barn 538
-eye infection 106
-feeding (research) 915
-housing 418-1289-1341
-identification program .. 150
-immunization before birth 20
-knee swelling 1046
-losses 67-794
-management 66-226-1174
-mortality 524
-raising, in Florida 176
-ration (vitamin D level) 882
-rickets 554
-rupture 706
-scours prevention 350-762
-showing ("Little International") 240
-starters 350
-twin, needed for research 50-375
-veal (raising) 1173
-warts 834
-water needs 37
Calving — fall 1174
-intervals (cost of long) 140
-intervals (maintaining) 1037
Canada — Holstein exports 87
-milk pricing 459
-milk production 963
Car — survival kit 1278
Carburetor — setting 725
Carport — insulation 1241
Carter, H. W., retires 863
Cattle — buying 525
-conformation (strength and frailty) 543-1243
-foreign bodies 1262
-identification (permanent) 1076
-identification for, moving interstate 81
-location and effect on performance 894
-louse control in winter 1174
-naming registered 711
-number in load 161
-selling (answering inquiries) 670
-show, care 742
-show-ring presentation 820
-trucking 968
-trucking and loading show 696
Central Milk Producers Cooperative—sets Class I price 113
Cervix — role in reproduction 160
Chain — link removal or addition 207
-oiling roller 1099
Charcoal — treatment for dieldrin contamination .. 806
Chemicals — crops without (demonstration) 524
-herbicide carry-over 352
-mixing (safety) 579
Child labor laws 505
Chlorophyll — synthesized 301
Cholera — Arizona free 986
-Iowa eradication program 87-581
-outbreaks down 959
-salvage value rule change urged 301
Cholesterol — insect control 266
-vitamin C lowers, level 279
Christmas — decorations 1309
Chugamoo — sales rise 787
Church—walls leak moisture 135
Citrus promotion 143
Clamp — chisel or plane iron grinding 243
Class I bases — cooperative interest 891
-Seattle dairymen vote 875
-western states 1284
Claw — removal 445
Clemson—dairy conference 1352
Clipping—cows 75-1331
Clocks — varieties 695
Colebank, L. O., retires 644
College — importance of farm background 1350
Colorado — flavored milk tested 185
Colostrum — antibodies 66
-importance 350
Computer — analysis of food supply 161
-culling 617
-insect identification 894
-new, center 627
Conception — delayed (cost of) 140
Concrete — air-entrained 853
-alley repair 1017
-alleys for barn 73
-blocks (making) 207
-blocks (painting) 901
-finishing 289
-floor (repair or replacement) 207
-free stalls 813
-graded aggregate 1289
-latex 1289
-nonslip 669
-pavement for barnyard 901
-pouring 455
-salt damage prevention 1341
-six-bag mix 1185
-types 457
Confinement — dairying in 1338
Congress — farm representation 900-908
Construction — barn (addition) 769
-barn (calf) 418
-barn (pole) 1341
-barn (stall) 201-849
-barn (tie stall) 665
-basement 421
Contour strips — regulations against fall plowing 66
Convulsions—calves 650
Cooperatives — Alto Cooperative Creamery 1170
-Associated Milk Producers, Inc. ..... 39-358-422-423-..... 584-891-902-925-981-984-1058-..... 1065-1170-1316
-Central Milk Producers 113
-Class I base use 891
-Dairymen, Inc. .. 34-406-1058
-Farmers Union Mar-

KEY TO PAGE NUMBERS

January 10	1-56	July 10	753-796
January 25	57-108	July 25	797-836
February 10	109-188	August 10	837-884
February 25	189-252	August 25	885-932
March 10	253-336	September 10	933-1000
March 25	337-400	September 25	1001-1048
April 10	401-484	October 10	1049-1112
April 25	485-540	October 25	1113-1160
May 10	541-604	November 10	1161-1224
May 25	605-652	November 25	1225-1264
June 10	653-708	December 10	1265-1324
June 25	709-752	December 25	1325-1360

XUM

keting Service Cooperative 1274
-Great Lakes - Southern Milk 1227
-Lakeshore Federation 925
-Land O' Lakes 422-423-471-1352
-mergers 1267
-Michigan Milk Producers 137-1168
-Mid-America Dairymen 345-1058-1203
-New York, merge 911
-Pure Milk Products 358-584
-three major, open merger discussions again 1058
-Twin City Milk Producers 1170
-United Dairy Industry Assn. 546-899-1031-1033-1036
-Upper Florida Milk Producers Assn. 366B (E)
-Upstate Milk Cooperatives 911
-Yankee Milk, Inc. 406-915
Cords — extension 977
Corn — aerial seeded 214
-centipedes 459
-check growing 616
-combining 1014-1023
-cultivation 425-718
-fall panicum control 501
-feeding 280
-feeding (blighted) 124
-Goss' bacterial wilt and blight 1122
-harvesting 1014-1023
-harvesting (day-to-day account) 26
-high-moisture (management) 895
-high-moisture (Round Table) 1280
-high-moisture (urea) 1278
-hybrids (blight-susceptible) 266
-hybrids (selection) 202
-insecticide application (seed) 532
-manure fertilization 1122
-moving high-moisture shelled 725
-nitrate content 1122
-no-tillage 127-200
-planting (early) 268-414
-quality report (leaf blight) 227
-record crop expected 1061
-rootworm control 266
-rye double cropping 718
-seed (F_2) 350
-seed (TMS cytoplasm banned in Alabama) 522A (E)
-seed swindles 494
-seed treatment 508-593
-seedlings (beetle and maggot attack) 447
-seedlings (effect of soil temperature) 596
-shortage ending 685
-silage—cutting 1032
-silage (feeding) 280-956-1234
-silage (feeding brown) 175-200
-silage (harvesting) 1242
-silage (Round Table) 1176
-smut 505
-southern leaf blight 124-266-268-374-414-446-494-572-593-644-746
-southern leaf blight reports (evaluating) 697
-southern leaf blight warning service 350
-weed control 279
-wireworms 459
Corn borer — population 429
Corn picker — central lubrication system 1185
-stripper plates 725
Corn planter — maintenance 417
Corn silage—cutting for 1032
-feeding 280-1234
-feeding brown 175-200
-harvesting 1242
-Round Table 1176
-urea 956-1234
Cornell dairy center 366
Cornstalks—nitrogen application 363
Cow — cardboard (Jim Hays') 154
-27-year-old 1256
Cow judging contest — Ayrshire class 189
-Brown Swiss class 1
-Guernsey class 109
-Holstein class 57
-Jersey class 253
-judges 497
-placings 496
-production records 415
-reasons 497
-scoring key 496
-testimonials 1351
-winners 553
Cowpox 334
Cows—behavior study 1333
-clipping 75-1331
-conformation (strength and frailty) 543-1243
-cull (selling) 383
-digestive system 65
-downer 186
-dry treatment 732-1300-1358
-drying off (allergic reactions) 750
-evaluation (producing ability) 1277
-exercise 38-1200
-foreign bodies 1262
-habits 379
-heat detection guides 735-848-1188-1330
-information on, important to selling 858
-irradiation 1174
-longevity 498
-management 128-265-561-898-1068-1124-1142B (E)-1335
-milk allergy 944
-paint marking system 167
-registered (value) 504
-selecting on protein production 1258
-size 661
-slaughter plan dropped in Europe 596
-straining 854
-summer management 806
"super" 1009
-supporting, on limited land 207
-upstandingness 426
-water requirements 398-846
-weight changes affect breeding performance 944
Crafts — varieties and books available on 169
Crankcase — pulsations 17
Credit — sources 873
-use of (Round Table) 12
Crops — check growing 616
Cuba — African swine fever 965-998
Culling — computer 617
-study 1010
Cultivation — corn and soybean 718
Custom rates — increase 865
Cutworm — black, damage 673
Cystic ovaries 54-88-602-650

— D —

Page
Dachtal — garden use 425
Dairy beef 10-132-200-204-554-1131-1148-1173-1301-1339
Dairy Farmers Mutual—merges with Northeast Florida Milk Producers Assn. 366B (E)
Dairy inspector — humorous article 1020B (E)
Dairy plant — new 94
Dairy products—German development 192
Dairy promotion — ADA (new milk selling theme) 35
—ADA (TV specials) 99
-California (doubles milk sales program) 520-755
-California Dairy Council (press conference) 1126
-4-H ideas 470
-Hall-Dale Dairy Farm 1180
-Individual's part 1168
-N.Y. referendum 1249
-Nixon approves promotion measure 116
-personalities used 1351
-scoreboard 141
-UDIA efforts 546
-Utah 777
-Wisconsin, vote 97-1058
Dairy Research, Inc. — research grant (dairy salad dressing) 326
Dairy Shrine Club — annual meeting 1088
-nominations due 237
-Student Winner 1098
-Dairy spread — lower fat, rated 970
Dairying — Appalachia 1282
-changes 1074
-confinement system 1338
-credit use (Round Table) 12
-Danish 972
-expansion 123
-financial condition 1125
-future 199-237
-future (dairymen's opinions) 76
-future (letter to young reader) 324
-generation gap 136
-getting started 920
-income potential 1332
-labor efficiency 9
-leadership 680
-Netherlands 46
-record analysis 30
Dairymen, Inc. — annual meeting 34
-mastitis control program 719
-Morgan succeeds Alagia 406
Dalton, W. (bull-feeding business) 1131
Dean Foods — Ralston Purina buys out, at Arkvalley 1149
Decorations — Christmas 1309
Denmark — dairying and veterinary service 972
Detch, C. C., to California 811
Dewer Dairy — dairy beef 132
-microclimate cooling 721
DHI — feed reports 1051
-records 638-893
-value 771
DHIA — new computer center 627
Dieldrin—charcoal treatment for, contamination 806
Diesel — fumes dangerous 554
Diet — dairy products in 1242B (E)
Diphtheria—calves 930
Disc — uneven wear 17
Disease — fetal immunization 20
Dogs — heartworm 772
"Dollar's Worth Dinners" 1029
Door — screen protection 1039
Dormitory — calf 689
Double cropping 203-718-944-1285
Doyle, J. R., succeeds Pederson 1170
Drill—grinding twist 377
-resharpening tungsten carbide 449
-tungsten carbide, for masonry 377
DRINC — advisory board created 1033
-dairy product development study 192
Driveway — salt damage prevention 1341
Drugs — animal (sales increase) 986
-residues (certification system) 662
Dryiot feeding 305-349
Duarte, J. (19,000-pound average on 400 cows) 1068
Duvall, K. L., named Nat'l. Distinguished Junior Holstein member 697

— E —

Page
Eastern Artificial Insemination Cooperative — calf identification program 150
-straw semen packaging 148
Editorials — ADA "The New You" 362
-AMPI convention cost 1184
-bargaining 900
-beverage milk standards 1240
-beverage prices compared 1016
-breed organizations (leadership) 852
-bull list 954
-butter to Britain 768
-Canadian milk pricing 206
-cancer and diet 72
-Christmas 1340
-congressional dairy spokesman needed 724
-cooperatives (battle — Land O' Lakes and AMPI) 424
-cooperatives (volume buying) 424
-corporate farming ban proposal 72
-court actions 852
-cow (tribute to dairy cow) 724
-cow judging contest 16-564
-cow size 668
-culling and milk prices 206
-dairy farmer influence 1128
-dairy farmer representation 900
-dairy farming career 900
-dairy outlook preparation almost impossible 362
-dairy statistics 768
-dairying (year-end report) 1340
-decision making 1128
-diet-heart issue 362-564-622
-directors of dairy organizations 16
-drug prices 768
-election campaign costs 1288
-European farmer protest 564
-Farm Bureau supports marketing and bargaining legislation 16
-farm labor (high school boys) 900
-farmstead cleanup 622
-fat labeling 812
-federal dairy cattle research center 724
-feed costs 500
-feed inventory 1072
-financial stability of milk processing and retailing businesses 1288
-food and "quality of life" 276
-Grade A conversion 1288
-Heart Assn. 134-206-276-564
-Illinois fertilizer hearings 1128
-import control 206-276-564
-inquiries (no pat answers) 424
-lactose 500-668
-leadership 1240
-management records 1072
-milk pricing 72-668-1016
-milk production (west) 500
-milk promotion 622-812
-milk promotion bill 72-134
-milk promotion defeat in Wisconsin 1072
-milk promotion funds 852
-milk promotion proposal in Wisconsin 362
-minimum standards for beverage milk 852
-NFO (corporate farming ban proposal) 72
-oleo 564
-patriotism (Kowalczyk and Gerdes) 768
-Pennmarva bouquet 1340
-plan service anniversary 134
-pollution 668-1184
-price and management balance 622
-price support increase 500
-production research 1240
-production testing 724
-productivity per man 1288
-protein pricing of milk 768
-research in universities 954
-Salute to Agriculture Day 668
-self-pity (dairy industry) 362
-shows (dairy cattle) 812
-shows (production performance requirements) 954
-shows (visitors) 1184
-skim milk curd 954
-standards for milk 1016
-standby pool investment 134
-Stella D'Oro 622
-supply management 1288
-surplus control 1240
-surplus signals 16
-swine industry (example of industry unification) 424
-UDIA 1128
-USDA proposed merger 276
-wage-price freeze 1016
-Wisconsin dairy promotion 362-1072
-World Dairy Expo sponsorship 1184
Electric fence — controllers (safety) 554
Electricity — cost 1336
Elevator — motor selection 1129
Elms — spraying 581
Embryonic deaths 503
Emery, H., to Nat'l. Milk Producers Federation 870
Engine — compression 1246A (E)
Environmental Protection Agency—chlordane and heptachlor review 1358
Enzyme—semen treated with 554
Equipment — purchases (justifying) 518
Estimated Producing Ability 1277
Ether — starting tractor with 1185
Europe — artificial breeding 1306
-cow slaughter plan dropped 596
European Economic Community—butter shortage 716
-butter surplus? 1085
Eustice, R. F., to Mexico 309
Exercise — importance (cows) 38-1200
Exports — foreign monetary changes to affect 762
Eyes—infection in calves 106
-summer problems 821

— F —

Page
Fair, T. and G. (disease problems) 1140
Fall panicum — control 501
Family of the Year — named 639
Farm—background (Velderman) 1350
-bargaining bills 952
-buying (tax implications) 351
-credit sources 873
-credit use (Round Table) 12
-Dutch dairy 46
-equipment purchases (justifying) 518
-expansion 123
-generation gap 136
-incorporating 413
-labor (child labor laws) 505
-labor (efficiency) 9
-labor (handling) 1028A (E)
-labor (incentive payments) 616
-labor (minimum wage assault) 667
-labor (needs) 284
-labor (women milkers) 1246B (E)
-leases 414
-management (Pennsylvania study) 1121
-management (value of constructive thought) 634
-partnership arrangements 615-980
-profit goal 958
-selling (tax implications) 270
-supplies (wise purchasing) 267
-visitors 240-773
Farm shop — safety 385-441-509
Farmers Union Marketing Service Cooperative 1274
Farmstead — impression 1115
Fat — necrosis 706
Fat test — conditions affecting 124
-limited roughage can cause low 514
-maintenance (roughage requirements) 1070
-variations 763
Feed — medicated 297
-medicated, supplements (sales increase) 986
-price outlook 1061
Feed bunk — uncovered, losses 200
Feed grain program — 1972 1275
Feed reports — DHI 1051
Feeding — barley (high-moisture) 718
-bluret 669
-calcium-phosphorus ratio 204-778
-calves (research) 915
-challenge 1278
-chopped hay 124
-complete rations 850-945
-corn 280
-corn (blighted) 124-374-446
-corn silage 175-200-280-956-1176-1234
-cows on pasture 684
-crude fiber 1123
-dryiot 305-349
-fiber 1067-1123
-forage 514-624-1070
-forage substitutes 1196
-grain 10-563-948
-hay cubes 131
-high-moisture corn 1280
-iodine 11
-ketosis control 1334
-magnesium 816
-manure (recycled) 1234
-methionine 1279
-milk replacers 1234
-mineral supplements 847-1292
-molasses-beet-pulp-urea 1010
-Nutrient Requirements of Dairy Cattle available 1352
-paper 619
-parlor grain 948
-pasture 684-762
-pellets 894
-program control 80
-reproductive performance and relation to 239
-roughage 1070
-roughage (limited) 514
-roughage substitutes 1196
-ruminants 65
-salt 1270
-silage (brown) 175-200
-soybeans (whole) 414
-standards 1352
-sulfur 280-538
-summer 734
-supplements 96
-synthetic diets 147
-urea 1222
-urea (corn silage) 956-1234
-vitamin D (calves) 882
-vitamin E 106
-vitamin K 623
-wastepaper 619
-wheat (high-moisture) 616
Fellers, E. E., Jr. named fieldman 1100
Fence—electric (controllers) 554
-value of good 453
Fertility — herd size and social stress affect 494
-inheritance 578
-lighting and effect on 292
-research (ovulation timing) 10
Fertilizers—ammonia application 616-673
-nitrogen 363-494-616-662
-organic and inorganic 846
-pasture 662-806-846
-purchasing 284
-substitute warning 200
Fetal immunization 20
Fetus—macerated 794
FFA—convention 1254
-judging contests 141-624-1254
Fiber—feeding 1067-1123
Fieldman—typical day 683
Filled milk—frozen shake, product 210
Finland — synthetic diets for cows 147
Fireplaces—types and installation 979
Fires—barn (spontaneous ignition) 662
Fisher, B., succeeds J. P. George 101
Fletcher, C. T., named Nat'l. Distinguished Junior Holstein member 697
Floor — concrete (repair or replacement) 207
Florida — Assn. of Milk, Food, and Environmental Sanitarians meeting dates 141
-calf raising (individual pens) 176
-dairy food industries meeting dates 210-1307
-dairy import requirements 591
Flowers—fabric 43
Fly control — barn and milking parlor (spraying) 662
-manure stacks 556
-safe insecticides 621
Food — abundance and quality of (Thanksgiving article) 1233
-iron-protein powder supplement 1332
-prices (USDA defense) 587
Food stamps 493
Foot-and-mouth disease—English outbreak (Fair farm) 1140
Foot rot 930-1262-1359
Forage—double cropping increases, production 203
-early-cut 698
-feeding 624-1070
-limited feeding (fat test) 514
-substitutes 1196
-treatment for quality improvement 1234
Forage cutter — maintenance 558
Foreign bodies—in cattle 1262
4-H clubs—AMPI to sponsor, dairy award program 1170
-dairy beef projects 1148
-dairy promotion ideas 470
-"Little International" 240
Free stall barn—alleys 73
-drive-through 354
-feeding arrangement 207
-roof 1185-1341
-ventilation 425-808-1066
Free stalls—concrete 813
-support 1073
Freemartins—incidence 602
-testing 54
From day to day 42-92-168-234-320-380-468-528-588-636-694-738-782-822-868-918-978-1034-1094-1144-1206-1252-1308-1346
Frozen shake—filled milk product 210
Furniture—rattan 783
Fuses—time-delay 297

FARM WRITE-UPS

Page
Beauprez, J. (commercial registered herd care) 1335
Becher, N. (Holstein herd) 561
Braunschweig, H. A. (production increase) 265
Bremel, W. (herd management) 1124
Buckland, R. (new ideas in dairy operation) 212
Dalton, W. (bull-feeding business) 1131
Dewer Dairy (dairy beef) 132
Dewer Dairy (microclimate cooling) 721
Duarte, J. (19,000-pound average on 400 cows) 1068
Fair, T. and G. (disease problems) 1140
Gerdes, R. (life story) 761
Goodman, L. and R. (father-son partnership) 1038
Grossi, R. (Dairy Shrine Club Student Winner) 1098
Hall-Dale Dairy Farm (dairy promotion) 1180
Hay, S. B., Jr. (silage feeding) 559
Holterman, E., and family (herd management) 128
Johnson, R. E. (silage management) 559
Koerner Farm (parlor grain feeding) 948
Lund, O. (stall barn) 201
Miller, F. (herd management) 1142B (E)
Nesseth, C., and sons (manure system) 1063
Nierman, H. and R. (father-son partnership) 357
Oosterhof, J., family (Washington's 1970 Dairy Farm Family of the Year) 951
Phillips, N. (management) 898
Pratt, A. (stall barn) 231
Riegel, J. and M. (dairy beef) 1339
Rose, H. (forage program—Appalachia) 1282
Salley, R. G., and son (silage management) 559
Schnitzler, C. (switch from beef to dairying) 720
Seipt, D. and G. (60-cow herd) 1011
Strobel, D. (heifer barn) 1012
Tenneson brothers (registered Holsteins) 1181
Van Dyk, C. (manure for bedding) 1239
Veenendaal, J. (confinement system of dairying) 1338
Velderman, P. (importance of dairy background) 1350
Williams, D. (tie stall barn) 665
Wolfskill, M. (dairy beef) 1339

— G —

Page
Gardens — Dachtal use on 425
Gashier, S. T., named Holstein fieldman 313
Gasolines — blends 425
Gates — electric crowding 846
Generation gap 136
Generator — nameplate information 623
Genetics — low fertility gene 846
Genital discharges 917
Georgia — TB outbreak 627
Gerdes, R. (life story) 761
Germany—dairy product development 192
Gift — free, offers 1187
Gillingham, S., promoted 863
Glass — cutting old 317
-replacing, in frames 172
-silage contaminated with 363
Goodman, L. and R. (father-son partnership) 1038
Grain — feeding 10-563
-insect damage 279
-small, not affected by southern leaf blight 167
-storage (silo) 901
Grain bin — drowning 1122
Grass shears — sharpening 905
Grease fittings — positioning 501
Great Lakes - Southern Milk — annual meeting 1227
Grinder-mixer — portable (purchasing) 620
Grinders — starting 441
Grinding wheel—dressing 509
-using 385
Grossi, R. (Dairy Shrine Club Student Winner) 1098
Guernsey—national show 1179
Gutter grate—selection 1283
Gutters — construction 901

— H —

Page
Hair balls 1262
Hall-Dale Dairy Farm (dairy promotion) 1180
Hansen, H. J., joins Holstein export service 591
Hardware disease—magnets prevent 282
Hartley, J. C., to Kentucky 986
Hay — chopped (fire hazard) 662
-chopping 124
-cubes 131-813
-making quality 722
-set-aside acreage (emergency use) 963
Hay, S. B., Jr. (silage feeding) 559
Hays, J. (cardboard cow) 154
Hearing — protection (tractor noises) 641
Heart disease—diet-heart theorists criticized 233
Heartworm — dogs 772
Heat — cycles 186
-detection guides 735-848-1188-1330
-source comparison 1017
Heifers — barn for raising 129
-breed, to calve younger 173
-feeding (molasses-beet-pulp-urea) 1010
-freemartin 54
-Holstein-Angus 414
-identical twin, needed for research 1131
-mastitis at first calving 582-1256
-pesticide poisoning 856
-raising costs 1334
-umbilical hernia 1222
Heilman, R. D., to New York 863
Henderson, C. R., receives Morrison Award 1025
Herbicide — carry-over 352
Herd — management (Beauprez farm) 1335
-management (Becher farm) 561
-management (Braunschweig farm) 265
-management (Bremel farm) 1124
-management (Duarte farm) 1068
-management (Holterman farm) 128
-management (Miller farm) 1142B (E)
-management (Phillips farm) 898
-management index 1337
-size and effect on fertility 494
-size vs. efficiency 1278
-small (Round Table) 1236
-steps in maintaining high-producing 910
Herd health — metabolic profiles 440
Hernia — umbilical, in heifer 1222
Hitches — tractor 17-565-725
Hog house — dust control 725
-moisture problem 901
Hogs — African swine fever 965-998

-antibiotics ... 691
-artificial rearing of baby pigs ... 384
-bloody scours ... 762
-cholera (Arizona free) 986
-cholera (Iowa eradication program) ... 87-581
-cholera outbreaks down 959
-feeding complete rations ... 31
-genetic progress ... 1092
-hauling (summer) ... 806
-leasing breeding stock 1296
-leptospirosis ... 334
-management for profitability ... 124
-manure (agitation) ... 853
-manure (fertilizer value) 964
-market grading system 1190
-mummified pigs ... 781
-raising in England ... 450
-raising in Europe ... 156-323
-sows (feeding bred) ... 66
-space, feeder, and waterer requirements ... 66
-stress deaths ... 1334
-temperature for baby pigs ... 901
-TGE ... 157-576
-vitamin E ... 576
Holland — veterinary medicine ... 142
Holstein cow — grade (record price) ... 981
Holstein-Friesian Assn. of America — annual meeting ... 860
-annual meeting dates .. 531
Holsteins — Canadian exports ... 87
-central national show .. 1205
-dairy cow numbers ... 237
-eastern national show .. 1127
-registered (profitability) 1181
-steers ... 10-132-200-204-554
-western national show 1258
Holterman, E., and family (herd management) 128
Home — ceiling and wall repair ... 207
-heating cost reduction 1341
-walls (vapor barrier) .. 277
Hoof trouble — claw removal ... 445
Hormones — colostrum antibodies ... 66
-treating problem breeders with ... 1010
Horses—VEE vaccination 1286
Hose — replacing couplings on plastic ... 737
-rubber (repair) ... 785
House — mildew on ... 1039
Houston — milk order pulled ... 925
-milk order saved ... 981
Hybrid — corn (selection) 202

HANDY HINTS

Page
Barn — two-tone paint job 633
Basket — rollers on feed 1041
Bead — soap sets ... 1313
Block — breaking, with water ... 923
Board—record, for cows 633
Broom—handle reinforcement ... 923
Bumper — car, protects feed bunk and wagon tires ... 517
-wrap-around ... 41
Cabinet — tool ... 223
Calf puller ... 1041
Cattle guard ... 982
Chain—barn alley ... 177
Chain saw — pumps milk 923
Chips—protection against flying ... 923
Chisel — holder ... 84
Concrete — roughening 693
Corn — blighted, handling ... 517
Cultipacker — portable .. 633
Dipstick — oiling with ... 633
Door — grain, in pickup endgate ... 569
Drill — holster for power 1143
Edger — lawn ... 388
Elevator — platform ... 84
Fan — checking ventilator, frames ... 569
Farm shop — heat lamp in 322
Feed bunk — portable, covered ... 982
Feeder — oil drum ... 693
-portable hay ... 1041-1313
-starting pigs on ... 517
Fence — gully (electric) 84
-removing or replacing 322
-splice ... 872
-spring keeps, tight ... 1313
-tightening wire ... 693
-walkway ... 177
File — herd record card 41
Fork holder — on manure spreader ... 1313
Gate — alley (barn) ... 322
-high-water ... 1313
-long-span ... 41
-separates cows into lots 223
-wide ... 633
Hacksaw ... 177
Hay bunk — floorless ... 223
-portable, covered ... 982
Hay carrier — return .. 569
Hayrack — removable standards ... 388
Heat lamp — farm shop 322
Hitching — easy ... 84
Hopper — tire ... 388
Key — tape to cord ... 84
Light — portable, extends 923
Loading chute — steel matting wings ... 693
Machinery — rust prevention ... 569
Manure spreader — oil soaking, floor ... 41
Milk can — remodeled, mixes milk replacer ... 569
Milking parlor — double-six converted to double-four ... 472
Notepad — truck ... 923
Oil can — guide for drops 322
Parlor — catch gate ... 693
Pipes—cutting, for gates 322
Post puller ... 923
Posts — driver for steel 84
Rack — grease gun ... 1041
Rim — tire, holds salt .. 472
Scoop — cracked, repair 1313
SMV emblem — fork bracket for ... 472
Sparrows — mothball control ... 388
Splice — fence (hog wire) 872
Stall — individual calf (construction) ... 322
Stanchion — treating ... 41
Tank — capacity (figuring) ... 1143
Time clock — automatic 388
Tractor — carrier on ... 872
Trailer — fuel and tools carried on ... 982
Tray — sorting ... 472
Trunk — keeping car, clean ... 1143
Vise — cushion for jaws 84
Wagon — portable feed 1313
Washer — barrel ... 693
Waste containers ... 177
Water — can on ammonia tank ... 177
Wire — unrolling device ... 472-872

— I —

Page
IBR — abortions ... 10-612
-diagnostic test ... 494
-general discussion ... 1064
-purchased animals contract, from healthy herd-mates ... 906
-vaccination ... 1062
-vaccine (intranasal) ... 1234
Identification — cattle (permanent) ... 1076
-paint marking system .. 167
Immunization — fetal ... 20
Incentive payments ... 616
Income taxes — buying a farm ... 351
-buying replacements .. 560
-children's wages deductible ... 718
-selling a farm ... 270
Incorporation — farm ... 413
Indigestion ... 1158
Individual—importance of 1168
Infertility — bull carries gene for ... 846
-lighting and effect on .. 292
Inflations — overused ... 1234
Insecticides — application (corn seed) ... 532
-guide ... 621
-safety ... 681
Insects — computer identifies ... 894
-control (biological) ... 662
-control (cholesterol) ... 266
-control (tailor-made) .. 731
-control (traps) ... 762
-damage to grain ... 279
-detection ... 1334
Inspector — dairy (humorous article) ... 1020B (E)
Insulation — carport ... 1241
-fireproofing ... 1129
-foamed plastic ... 185
-installation ... 1238
-quonset barn ... 1185
-tie stall barn ... 813
Insurance — health ... 664
Interior decorating—area rugs ... 1095
-Christmas ... 1309
-clocks ... 695
-crafts ... 169
-fabric flowers ... 43
-fireplaces ... 979
-pattern painting ... 1207
-rattan ... 783
-tables ... 236-589
-terrariums ... 869
-tips ... 469
Internal Revenue Service — advisory committee .. 315
Iodine — deficiency ... 11
Iowa — cholera eradication ... 87-581
-dairy day ... 141
-state fair (requires production standards) ... 862
Iron-protein powder ... 1332
Irradiation — effect on milk production ... 1174
Israel — artificial breeding in ... 232
-heat detection guides .. 1330

— J —

Page
Janssen, G., named Holstein fieldman ... 284
Jersey — All-American, show ... 1179
-auction sales numbers .. 237
Johne's disease ... 896
Johnson, R. E. (silage management) ... 559
Johnson, W. S., retires .. 1203
Judging — basics ... 44
-reasons giving ... 95-1021
-skills (development) ... 174
Judging contest — FFA, (Mid-Am and AMPI sponsorships) ... 624
-intercollegiate dairy (Cornell wins) ... 1208
-Iowa teams win Expo .. 1209
-nat'l. 4-H ... 1208
-nat'l. 4-H dairy (50th anniversary) ... 973
-nat'l. FFA dairy cattle ... 141-1254

— K —

Page
Kelly, P. L., retires ... 857
Ketosis — feed to combat ... 1334
-symptoms ... 125
Koerner Farm (parlor grain feeding) ... 948
Kolmer, L. R., to Oregon 50
Krami Dairy, Inc.—signs contract with NFO ... 1172
Krogstad, Gayle, named American Dairy Princess 851
Kutz, D., named to sire procurement ... 313

— L —

Page
Labor — child, laws ... 505
-efficiency ... 9
-farm (handling) ... 1028A (E)
-farm (women milkers) ... 1246B (E)
-farm, needs drop ... 284
-incentive payments ... 616
-minimum wage assault 667
-operating arrangements 615
Lakeshore Federation — formed ... 925
Land — requirements for 25 cows ... 207
-value gain ... 1278
Land O' Lakes, Inc. — annual meeting ... 471
-attacks AMPI ... 422-423
-dairy policy study recommended ... 1352
Latex — concrete ... 1289
Lawn mower — air cleaner filter cleaning ... 977
-blade sharpening ... 737
Lead — poisoning ... 632
Leases — farm ... 414
Ledford, V. F., succeeds Burdette Fisher ... 101
Legates, J. E., named dean ... 237
Leptospirosis — control ... 438-974
-experimental vaccine .. 414
Letter — to young reader (future of dairying) 324
Leukemia — case history 1150
Leukocyte counts — milk ... 10-662-726-825-894
Lice — control in winter 1174
Light bulbs — labeling .. 445
Liquid manure — fertility value ... 124
-handling ... 273-1063
"Little international" — Iowa's ... 240
Load — number of cattle in ... 161
Loading — cattle ... 696
Longevity ... 498
Loose housing — heat detection guides ... 848
Lumpy jaw ... 482
Lund, O. (stall barn) ... 201
Lymphatic system ... 1359

— M —

Page
Macerated fetus ... 794
Machine shed — floor ... 853
Machinery — ownership costs ... 944
-repair ... 302
-tillage ... 130
Magnesium — feeding ... 816
Magnets — rumen ... 282
Management — constructive thought ... 634
-evaluating, abilities ... 1337
-herd (Beauprez farm) 1335
-herd (Becher farm) ... 561
-herd (Braunschweig farm) ... 265
-herd (Bremel farm) .. 1124
-herd (Duarte farm) ... 1068
-herd (Holterman farm) 128
-herd (Miller farm) 1142B (E)
-herd (Phillips farm) ... 898
-Pennsylvania, study ... 1120
Manger — repair ... 135
Manure — crude oil from 1122
-fertilizing corn ... 1122
-liquid (fertility value) .. 124
-liquid (handling) ... 273-1063
-recycling as bedding .. 1239
-recycling as cattle feed 1234
-stacking ... 556
-swine (agitation) ... 853
Manure handling — ASCS cost-sharing ... 315
-choices ... 353
-cost ... 420
-liquid ... 273-1063
-Nesseth farm ... 1063
Manure loader — hydraulic cylinders ... 135
-selection ... 522B (E)-1073
Manure spreader — selection ... 126
Manure tank — reinforcement (walls) ... 901
-ventilation fans ... 1341
Maryland — 4-H dairy beef projects ... 1148
Massachusetts — seminar 39
Mastitis — antibiotic treatments ... 124-829
-chronic ... 399
-control (Dairymen, Inc.) ... 719
-definition and economic importance ... 962
-dry cow therapy 732-1300-1358
-first-calving ... 582-1256
-gangrene ... 1022
-identifying causative organism ... 1134
-losses determined with quarter milking machine 944
-milking hygiene ... 1250
-milking machine and relation to ... 1194
-rating herd ... 1010
-research grants ... 101
-residual milk ... 1062
-screening tests ... 10-662-1096
-series of articles ... 962-... 1025-1096-1134-1194-1250-1300
-susceptibility ... 1025
-vacuum regulator causes, problem ... 829
Mathis, A. G., commentary on dairy outlook articles ... 237
McGrew, D., retires ... 817
Medallion Award — Baylor receives ... 875
Medical costs — rise and payment of ... 664
Medicare ... 723
Medicine — expiration dates ... 1222
Meeks, E. R., succeeds E. J. Ryger ... 728
Mehren, G. L., joins AMPI staff ... 984
Mellinger, J., joins Eastern ... 1142A (E)
Mergers — cooperative .. 1267
Metabolic profiles ... 440
Methionine—supplemental 1279
Michigan — consumers rate lower fat dairy spread ... 970
Michigan Milk Producers Assn. — Kalamazoo Milk Producers Co-op merges with ... 137
-work of ... 1168
Microclimate cooling ... 721
Mid-America Dairymen — annual meeting ... 345
-Baldi succeeds Johnson as manager ... 1203
-merger discussions ... 1058
Mildew — basement ... 901
-kill, before repainting (home exterior) ... 1039
Milk — abnormal (screening tests) ... 10-... 662-726-825-894-1096
-allergy in cows ... 944
-antibiotic contamination ... 124-875
-cell counts ... 10-... 662-726-825-894-1096
-Chugamoo, sales rise .. 787
-dating ... 912
-diet needs of U.S. women 1026
-endorsement from scientist ... 159
-filled (frozen shake) ... 210
-flavored (Colorado) ... 185
-freezing point affected by ration ... 494
-Grade A production ... 301
-insecticide residue ... 681
-iron-protein powder supplement ... 1332
-Minnesota has Grade A, increase ... 1349
-off-flavors ... 1089-1298
-orange juice, combination ... 846
-production costs in northern Wisconsin ... 308
-protein content ... 1258
-sales at military bases 165
-sampling ... 1202
-skim solids pricing ... 199-237
Milk biscuits ... 311
Milk carton — boat race 1303
Milk fever — research .. 583
Milk house — floor (latex concrete) ... 277
Milk inspector — humorous article ... 1020B (E)
Milk marketing—Class I bases ... 891-1284
-Puget Sound (Class I base vote) ... 875
-supply management program ... 1273
Milk order—Houston federal, pulled ... 925
-Houston federal, saved 981
Milk pricing — Canada .. 459
-Chicago ... 113-205
-mechanics ... 784
-protein basis ... 717-... 1016-1017-1258
-skim solids basis ... 199
-supports raised ... 491
Milk production — overquota (Canada cuts levies) 963
-role of A.I. in high ... 910
-zone cooling ... 988
Milk promotion — ADA (fail) ... 1029
-ADA (new milk selling theme) ... 35
-ADA (TV schedule) ... 971
-ADA (TV specials) ... 99
-California (celebrities) 975
-California (doubles sales program) ... 520-755
-California Dairy Council (press conference) .. 1126
-4-H ideas ... 470
-Hall-Dale Dairy Farm .. 1180
-individual's part ... 1168
-New York ... 366B (E)-... 986-1249
-Nixon approves promotion measure ... 116
-personalities used .. 975-1351
-scoreboard ... 141
-UDIA efforts ... 546
-Utah ... 777
-Wisconsin, vote ... 97-1058
Milk quality — dairyman control ... 22
-fieldman's day ... 683
-hot cars affect ... 1087
-human factor ... 567
-late summer and early fall problems ... 985
-management ... 163
-off flavors ... 1089-1298
Milk replacers ... 1234
Milk rooms — ventilation 554
Milkers — women .. 1246B (E)
Milking — hygiene ... 1250
-incomplete ... 1062
-intervals (shorter) ... 266
Milking equipment — cleaning ... 66
-faulty, causes mastitis problem ... 829
-sanitizers ... 286
Milking machine — inflation overuse ... 1234
-maintenance ... 1175
-mastitis and relation to 1194
-quarter, determines mastitis losses ... 944
Milking parlor — gates (electric crowding) ... 846
-grain feeding in ... 948
-location ... 1341
-rotary (New Zealand) .. 1210
-64-stall (New Zealand) 986
Milko-Tester ... 14-1311
Miller, F. (herd management) ... 1142B (E)
Miller, J., honored 1142A (E)
Minerals — feeding .. 847-1292
Minnesota — Grade A milk increase ... 1349
-new dairy plant ... 94
Mississippi — delta farming ... 1130B (E)
Moisture testers ... 224A (E)
Molasses — feeding with urea and beet pulp ... 1010
Moo-La Sweepstakes ... 19
Moser, J. A., honored at World Dairy Expo ... 1120
Motor — elevator ... 1129
-lubricating electric ... 1255
-overload ... 522A (E)-1185
Mower — balanced ... 501
Mulefoot ... 555
Mura, A. V., moves to UDIA ... 1349
Murray, D. L., retires .. 1276
Muscular dystrophy ... 106
Mycotoxicosis ... 623

— N —

Page
Nails — roofing ... 277
-rough and green lumber needs special ... 690
Names—cattle ... 711
National Association of Animal Breeders — Hardin to keynote 25th convention ... 907
-25th anniversary ... 1100
National Conference on Interstate Milk Shipments — annual meeting 726
National Dairy Council — annual meeting ... 233-319
-Rhoads to ... 180
National Dairy Herd Improvement Assn.—meeting dates ... 281
National Distinguished Junior Holstein Members — named ... 697
National Farmers Organization — Chicago handler signs contract with 1172
National Farmers Union — milk marketing cooperative ... 1274
National 4-H Dairy Judging Contest — 50th anniversary ... 973
National FFA Convention — judging contest ... 141
National Milk Producers Federation — annual meeting ... 32
Nesseth, C., and sons manure system) ... 1063
Netherlands — veterinary medicine ... 142
New England — cooperative merger dispute 915
New York — Bang's vaccination payments dropped ... 1246A (E)
-cooperatives merge ... 911
-milk promotion .. 366B (E)-... 986-1299
New Zealand — milking parlor (64-stall) ... 986
-rotary milking systems 1210
-udder washer developed 1150
Newspaper — feeding .. 619
Nichols, J. R., to Select Sires ... 1142A (E)
Nierman, H. and R. (father-son partnership) 357
Nitrate poisoning — corn 1122
Nitrogen — application .. 616
-application to cornstalks ... 363
-application to pastures 662
-low, level aids leaf blight ... 494
-nitrate (pollution prevention) ... 1334
North Carolina — nutrition conference dates .. 1170
North Dakota — brucellosis-free ... 799
Northeast Dairy Conference ... 370A (E)
Northeast Florida Milk Producers Assn. — merges with Dairy Farmers Mutual .. 366B (E)
Norton, H. W., dies ... 969
Nutrition — blood protein analysis ... 894
-dairyman's role in spreading, story .. 1242B (E)

— O —

Page
Oak — poisoning ... 882
Off feed ... 1158
Off-flavors — milk 1089-1298
Ohio — dairy day ... 863
Oil — additives ... 1129
-breakdown ... 363
-crude, from waste ... 1122
-selection ... 810
Oil stone—use, for sharp cutting edges ... 631
Oleo — Utah, tax repealed 984
Oosterhof, J., family (Washington's 1970 Dairy Farm Family of the Year) ... 951
Orange juice—milk combination ... 846
Orisio, R., named fieldman ... 50
Ovaries — cystic ... 54-... 88-602-650

— P —

Page
Paar, D. L., honored at World Dairy Expo ... 1120
Paint — latex ... 853
-peeling ... 1255
Painting—concrete block 901
-house ... 1039
-patterns ... 1207
Paper — feeding ... 619
Partnership—farm (working up to) ... 615
-father-son ... 980-1132
-father-son (daughter-in-law's view) ... 568
-father-son (L. and R. Goodman) ... 1038
-father-son (reader view) 390
-father-son (report on 20-month-old) ... 1132
Pasture—feeding on .. 684-762
-fertilization ... 662-806-846
-management (fencing and fertilization) ... 806
Patterns ... 42-92-168-234-... 320-380-468-528-588-636-694-... 738-782-822-868-918-978-1034-... 1094-1144-1206-1252-1308-1346
Pedersen, E., succeeded by L. Arrigoni ... 1276
Pederson, G. N., retires 1170
Pellets — feeding (complete rations) ... 894
Pennsylvania — fieldmen's conference ... 563
Pens — individual, for calves (Florida) ... 176
Peritonitis ... 672
Pesticides — computer analysis ... 161
-container handling ... 616
-poisoning (heifers) ... 856
-residues ... 89
-review (chlordane and heptachlor) ... 1358
-well contamination ... 457
Petersen, W. E., dies ... 532
Phillips, N. (management) ... 898
Phosphorus — algae growth ... 806
Placenta—retained .334-602-834
Plan service—calf barn with individual and group pens ... 461
-drive-through free stall barn ... 355
-gated free stall heifer barn ... 129
-list ... 154-223-388-590-781-... 827-922-982-1100-1158-1289
Plane blades — regrinding ... 502
Plant Variety Protection Act ... 326
Plastic — foamed, insulation ... 185
Plog, J. F., Jr., named fieldman ... 635
Plow — tail wheel ... 565
Plowshares — hard surfacing ... 1185
Plywood — handling ... 905
Pneumonia — cattle ... 1046
-inhalation ... 750
Poisoning — feed ... 623
-human carelessness causes ... 1198
-lead ... 632
-nitrate ... 1122
-oak ... 882
-pesticide (heifers) ... 856
-silo gas ... 522
Pollution — control (dairymen's part) ... 420
-future ... 143
-nitrate nitrogen ... 1334
-well, with pesticides ... 457
Ponds — filtering water 474
Potassium—alfalfa needs 741
Pratt, A. (stall barn) .. 231
Preservatives — wood (mixing) ... 172
-wood (WRP) ... 74
Price supports—raised .. 491
Prices — food (USDA defends farmers) ... 587
-foreign monetary changes 762
Profit — motive in business of farming ... 958
Protein—pricing of milk 717-... 1016-1017-1258
Puget Sound — Class I base vote ... 875
Pulmonary emphysema .. 1110
Purchasing — equipment (justifying) ... 518
-wise (farm supplies) 267
Pure Milk Products Co-op —AMPI merger ... 358-584
Purebred Dairy Cattle Association — annual meeting ... 531

PRODUCTION RECORDS

Page
Guernsey
Fox Run A.F.C. Faye 1147
Grandview P Babs ... 1071
Pine Vista W Pride ... 87
Will O West Royal Bunny 87
Holstein
Reinharts Arthur-Farms Ballad ... 94
Jersey
Basil Lucy Minnie Pansy 309
Headspring Gallant Flare 1349
Headspring Gallant Phete 1349
Reliable A Ruler Fill-Pail Jane ... 644
Sunny King Berna ... 644

— Q —

Page
Quonset — barn (insulation) ... 1185

— R —

Page
Rabies—decline ... 205
Rafters—protection ... 207
Ralston Purina—buys out Dean at Arkavalley ... 1149
Rat—control (sterility) .. 463
Ration—calculating dairy 1123
-pellet ... 894
Rattan—use in home ... 783
Recordkeeping ... 460-1186
Records—DHI ... 638-893
-evaluating ... 1277
-individual cow ... 86
-reproduction ... 718
Red and White—Show ... 1209
Reeves, J. L., joins AMPI staff ... 984
Registration — value of cattle ... 504
Reid, J. T., replaces J. K. Loosli ... 1276
Replacements—tax-saving practices when buying 560
Reproduction — feeding and relation to ... 239
-fertilized egg transfer .. 819
-light and effect on ... 292
-ovulation timing ... 10
-research (Europe) ...1357
-twinning ... 334-602-686-730-... 776-818
Reproductive trouble—anestrus ... 90-208
-cost ... 140
-cystic ovaries 54-88-602-650
-embryonic deaths ... 503
-genital discharges ... 917
-heat cycles abnormal .. 186
-problem breeders (hormone treatment) ... 1010
-retained afterbirth ... 334-... 602-834
-vaginal problems ... 1322
-vibriosis ... 296-399
Research—calf feeding .. 915
-care of high producers 1009
-cow behavior ... 1333
-dairy product (dairy salad dressing) ... 326
-dairy product (Germany) 192
-environmental quality .. 143
-fetal immunization ... 20
-location and effect on animal performance ... 894
-mastitis, grants ... 101
-milk fever ... 583
-ovulation timing ... 10
-reproduction (Europe) .. 1357
-shipping fever ... 464
-twin calves needed for 50-... 375-427-1131
-zone cooling ... 988
Research and Industry Conference — dates ... 50
Rhoads, A. F., to National Dairy Council ... 180
Rickets — calves ... 554
Ricketts, R., Missouri dairy specialist ... 185

Riegel, J. and M. (dairy beef) 1339
Ringworm — symptoms and treatment 124
Rodman, B. D., moves to ADA 870
Roll bars — tractor 718
Roof — barn (cold free stall) 1185
-barn (insulated free stall) 1341
-leaking (home) 1341
-metal (leaking problem) 901
-metal (new cover) 363
-painting 317
Rootworm — control 266
Rose, H. (forage program — Appalachia) 1282
Roughage — feeding 1070
-substitutes 1196
-treatment for quality improvement 1234
Round Table — "Corn silage is our main forage" 1176
-Don't count out small herds 1236
-"How we pick the bulls we use" 68
-"Our experience with high-moisture corn" 1280
-They make credit a working asset 12
Roundworms — control 663
Rugs — area 1095
Rumen fermentation 1067
Ruminants 65
Rupel, I. W., dies 817
Rupture — calves 706
Rural life — personal account of, today 743
Russell, W. A., to Jersey staff 870
Rye — corn double cropping 718

RECIPES AND FOODS

Page
Apples — on a spit 235
Beans — green, with celery-bacon sauce 823
-marinated green 1145
Beef — roast 381
Bread — cheesy whole wheat rounds 1145
-gougere 1145
Capon — rice-stuffed, with chicken giblet gravy 381
Casserole — crab and cheese 1145
Celery — stuffed 1347
Cheese — ball 1347
-squares with curried seafood sauce 637
-tray 637
Chicken — a la king 529
-divan with cheese sauce 919
-oven-fried 919
Crackers — cheese 1347
Crepes suzette 93
Dairy products—use and nutritional value 739
Dessert — lemon cream, with strawberries 529
Dip — clam 1347
-mustard ham 1347
Duckling — split-roasted, with orange sauce 235
Egg custards — mapley 93
Eggnog — frothy 1347
Fish parmigiano 1145
Fondue — recipes 1035
French toast — scrambled 93
Fruit cake — raisin 1253
Gougere 1145
Ham — loaf 919
-rolls stuffed with rice 529
Hush puppies 235
Lamb — leg of, with cucumber dill sauce 381
-skillet 381
Pancakes 93
-French 93
Pie — deep-dish berry, with ice cream 739
-fried 235
-potato (white) 694
Pork chops — fruit and nut stuffed 1347
-pineapple 919
Potato balls — Mexican 694
Punch — pineapple strawberry 637
Raisin squares 1347
Rice — cheese 1145
Ripe olive torta 637
Salad — carolers' pineapple buffet 1347
-pineapple macaroni 381
Sandwich — grilled crab 235
Sauce — custard 235
-date-cheese 93
-orange, for duckling 235
-orange raisin 93
-oriental cream, for cauliflower and carrots 823
-raspberry 235
-syrup and coconut 93
-tart cherry 93
Shake — banana-strawberry 739
Shrimp — devilled, and eggs on noodles 529
Soup—chicken-nut 1347
-instant potato 235
-potato 694
Spareribs — superior 1144
Spread — mustard ham 1347
Syrup — coffee 93
-orange-flavored 93
-peppermint 93
-rum 93
-spicy 93
Tomatoes — golden glow 823
Torte — almond meringue 739
-holiday eggnog 1347
Turkey — divan with cheese sauce 919
-preparation 1253
Vegetables — sauce (oriental) 823
Waffles 235

— S —

Page
Safety—ammonia 673
-filling tractor LP gas tank 1241
-grain bin drowning 1122
-grinder 441
-grinding wheel dressing 509
-insecticide 681
-pesticide (handling empty containers) 616
-roll bars 718
-shop 385-441-509
-SMV emblems 1020
-standards coming 509
-tractor cabs 718
Salad dressing — dairy, developed 326
Sale—All Am. Jersey 237-1216
-Curtiss Classic 584
-Everett Sonsteby 981
-Folck Classic Jersey 819
-Hawkeye Holstein 862
-Ideal Guernsey Farms 811
-Kentucky Nat'l. Jersey 787
-Midwest Breeders Medalist Holstein 1019
-National Imperial Swiss 1316
-Newberry County Jersey 1316
-Romandale Holstein (world record price) 745
-Tri-State Holstein 902
-Woodacres Guernsey 811
-World Premier Holstein 1213
Salesman, J., named to Holstein staff 301
Salley, R. G., and Son (silage management) 559
Salmonellosis 618
Salt — feeding 1270
Sanitation — dairy cleaners and sanitizers 66-286
-farm (milk quality) 22-163
-human factor 567
-teat dips 266
Saw — guide for portable 1189
Saw-guide jig 1099
Scale — farm 950
Schnitzler, C. (switch from beef to dairying) 720
Scoreboard — milk promotion on UW 141
Scours — bloody (hogs) 762
-calf (prevention) 350-762
Screening tests 10-662-726-825-894-1096
Screwworm—incidence 799
-Texas 1242
Seattle—Class 1 bases 875
Seed—alfalfa (bees) 700
-certified 427
-corn (F_2) 494
-corn, treatment 508-593
-handling 467
-swindles 494
-10,000-year-old 350
-TMS cytoplasm, banned in Alabama 552A (E)
Seipt, D. and G. (60-cow herd) 1011
Semen — enzyme addition 554
-extender aids conception 894
-freezing 523
-frozen (new health restrictions) 1170
-losses during collection 1174
-straw packaging 148
Septic tank — inspection 1341
-regulations 725
Sex — ratio 387
Shades — cattle 721
Shannon, R. P., resigns from Sire Power, Inc. 50
Sheep — twin detection 1334
Shingles — wooden 690
Shipping fever 288-482
-research (mobile lab) 464
-viral vaccines 1235
Shorthorn — Australian, featured at International Dairy Congress 45
Showing — cattle care 742
-"Little International" 240
-loading and trucking 696
-presentation in ring 820
-selecting show herd 914
Shows—All Am. Jersey 1179
-central national Swiss 1178
-central national Holstein 1205
-dairy beef (World Dairy Expo) 1301
-dates at World Dairy Expo 975
-eastern national Swiss 1204
-eastern national Holstein 1127
-future of national 643
-Moo-La Sweepstakes 19
-national Ayrshire 1178
-national Guernsey 1179
-Red and White 1209
-western national Swiss 1316
-western nat'l. Guernsey 1316
-western national Holstein 1258
Sickles — sharpening 785
Siding — covering old 363
Silage — brown 175-200
-corn (feeding) 280-956-1234
-corn (harvesting after tropical storm) 1242
-corn (nitrate content) 1122
-corn (Round Table) 1176
-corn (urea) 956-1234
-cutting corn for 1032
-feeding 559
-low-moisture (brown) 1010
-making 824
-sorghum 416-559
Silo—bunker (advantages) 586
-glass in 363
-grain storage 901
-life 1073
-sealing 955
Silo gas — poisoning 522
Sire — care of herd 158
Sire selection—sire list 946-954
-EATA 809
-Predicted Differences 200-340-960
-Predicted Income 943
-Repeatability 200
-Round Table 68
-yield and solids nonfat 1174
Smith, E. B. director at Golden Guernsey 165
Smut — corn 505
SMV emblems—checking 1020
Snowmobile—care 170
Snowplow — farm (types) 1073
Snyder, M. A., named Holstein fieldman 799
Social security 562
Soil — barriers 806
-composition 386
-organic matter incorporation 425
-surface water management 269-356-419
-texture 427
Sorghum — raising for grain or silage 416-559
South — leaf blight 644
South Dakota—brucellosis mop-up 1026-1029
Southeast Dairy Conference 370A (E)
Southern leaf blight 124-266-268-350-374-414-446-494-572-593-644-746
-small grains not affected 167
Sowerby, M. B., appointed Guernsey classifier 644
Soybeans—check growing 616
-cultivating 718
-early planted 224
-fall ponicum control 501
-fungus promotes yields 66
-harvesting 949
-hybrid 429
-seed size 554
-smartweed control 501
-stale seedbeds 414
-surplus gone 289
-whole (feeding) 414
Spark plugs — types 425
-wear 1289
Spider — teat 998
Spontaneous ignition (hay) 662
Sprayer — calibration 590-613
-mixing chemicals 579
-selection and maintenance 557
Spraying — drift 522A (E)
-elm trees 581
Stalls — floor insulation 1017
Steel — reusing corrugated 207
Steers — Holstein 10-132-200-204-554
Steps — preservative for 1185
Straining — reasons for 854
Straw — field handling 762
Stress — in cattle 241
Strobel, D. (heifer barn) 1012
Sucking—tongue surgery prevents 1054
Sudan grass — cutting 515
Sulfur — feeding 280-538
Superpool — Chicago price changed 205
-Chicago, sets Class I price 113
Supplements — feeding 96
-mineral 847
Sweden—cystic ovaries 88
Switches — replacing defective light 1189
Synthetic feeds 147

— T —

Page
Tables — use in interior decorating 236-589
Tank — manure (wall reinforcement) 901
Taxes — buying a farm 351
-buying replacements 560
-children's wages 718
-selling a farm 270
Teat — obstruction 1322
-removal of extra 1158
-spider 998
Teat dips 266-494-532
Technical agriculture — training 1312
Tenneson brothers — registered Holsteins 1181
Terrariums 869
Tetanus — immunization 1062
Texas—screwworm cases 1242
The American Guernsey Cattle Club — annual meeting 740
Threshing — memories of neighborhood, bees 805
Tillage — minimum 130
-operations 130
-zero 127-200-279
Tires—tractor (dual) 725
-tractor (powdered ballast) 17
-tractor (size) 565
Tobias, J., honored 863
Toes — growth between 834
Tongue — surgery 1054
Touchberry, R. honored 986
Tractor — battery 565-813
-carburetor setting 725
-clutch linkage 565
-differential locks 1241
-dual wheels 725
-engine braking 725
-fuel consumption 596
-hitches 17-565-725
-hydraulic system 501-1185
-industrial 1185
-LP gas tank filling 1241
-noises (protection) 641
-oil filters 725
-oil pressure 73
-permit to drive 1029
-roll bars 718
-safety cabs 718
-safety standards 509
-spark plugs 425-1289
-starter 501
-starting with ether 1185
-summer checklist 766
-tires (powdered ballast) 17
-tires (size) 565
-valve rotators 565
-voltage regulator 17
-wheel adjustment 425
Traps — insect 762
Trees — spraying elm 581
Triticale 1062
Truck — purchasing 272
-versatility 666
Trucking — cattle 969
Trusses — construction 1341
Truxillo, M. M., succeeds V. F. Ledford 101
Tuberculosis — Georgia outbreak 627
Twin City Milk Producers — general manager retired 1170
Twinning — effects of, on performance 730
-fertilized egg transfer 818
-induced 776
-selection for 686
Twins — aborts one, delivers the other 334
-defecting, in ewes 1334
-identical heifers needed for research 1131
-incidence 602
-needed for research 50-375-427-1131
Type — strength and frailty 543-1243
-traits 649
-upstandingness 426

— U —

Page
Udder—infusions 124-829
-sore 538
-upstandingness related to, depth 426
-washer (New Zealand) 1150
United Dairy Industry Assn. — advisory board named 1031
-annual meeting 546
-budget meeting 1129
-18 dairy groups join 899
-joint board session 1033
-membership 1036
Upper Florida Milk Producers Assn. 366B (E)
Upstate Milk Cooperatives, Inc. — formed 911
Urea — feeding 1222
-feeding (corn silage) 956
-feeding (high-moisture corn) 1278
-feeding with molasses and beet pulp 1010
Utah — dairy promotion 777
-oleo tax repealed 984

— V —

Page
V-belts — maintenance 449
Vaccination — brucellosis, urged 244
-IBR 1062
-leptospirosis control 414
-shipping fever complex 1235
Vaccine — intranasal IBR 1234
-wart 882
Vaginitis 1322
Van Dyk, C. (manure for bedding) 1239
Veal — raising dairy 1173
VEE — vaccinating (horses) 1286
Veenendaal, J. (confinement system) 1338
Veiderman, P. (dairy background) 1350
Ventilation — barn (free stall) 425-808-1066
-milk rooms 554
Veterinary corps 326
Veterinary medicine — Denmark 972
-Holland 142
-importance of history 1348
-information 1222
Veterinary service 688
Vibriosis 296-399
Virginia — DHI program 210
Viroid — potato 1062
Vitamin C — cholesterol lowered through 279
Vitamin D — feeding (calves) 882
Vitamin E — deficiencies 106
Vitamin K — adding to ration 623

— W —

Page
Wage — children's, tax deductible 718
-minimum, assault 667
Wallpaper — hanging 321
Walls—moisture leaks 135-813
Warts — calves 834
-vaccine 882
Washers — lock 501
Washington—Dairy Farm Family of the Year (Oosterhof, J., family) 951
Washington dairygrams 5-61-115-194-257-342-405-489-545-611-658-713-757-801-842-889-937-1005-1053-1117-1165-1229-1269-1329
Wastepaper — feeding 619
Water — calves 37
-importance 291-846
-intoxication 365
-pesticide contamination 457
-requirements (cows) 398
-surface 269-356-419
Water softener — rinsing 1185
Webb, D. W., to Florida 971
Weed control—alfalfa 1062
-alfalfa (herbicides) 616
-corn (no-till systems) 279
Wells — pesticide contamination 457
Western States Animal Health Conference 99
Wheat — feeding (high-moisture) 616
Wheeler, W. S., named advertising director ADA 39
Whey—iron-protein powder 1332
-packing material use 894
-snack food developed 984
White muscle disease 106
Willett, L. B., to Ohio 1097
Williams, D. (tie stall barn) 665
Wilson, R. J., moves to UDIA 1349
Windmill — history 452
Windows — barn 71
-barn (storm) 955
-replacing glass 172
-sash and frame (preservative application) 74
Wisconsin — anaplasmosis crackdown 1358
-milk production costs 308
-milk promotion vote 97-1058
-Milko-Tester legal 1311
Wisconsin Federation of Cooperatives — annual meeting 1273
Wolfskill, M. (dairy beef) 1339
Women—milk needs of 1026
-milkers 1246B (E)
Wood—preservative (mixing) 172
-preservative (WRP) 74
Wood chisels — regrinding 502
Wooden tongue 1444
World Dairy Expo—banquet 1031
-dairy beef show 1301
-dates set 975
-dairy groups purchase 667
-Moser and Parr honored 1120
Wright, E. O., elected vice-president 1089

— X-Y-Z —

Page
Yankee Milk—dispute 915
-proposed formation 406
Zero tillage 127
Zone cooling 988

COVER PICTURES

Page
Ardrossan Ayrshires 485
Bremel, W., and daughter with Holstein heifer 709
Calf — Guernsey (Twin Brook Farm) 1049
Chapman Guernseys 605
Chickaree Holsteins 1113
Christmas cover 1325
Crossman, Judy, and Brown Swiss heifer 653
DeHart, R. 1265
Hansen, J., Holstein herd 837
Keystone Farm Holsteins 1001
Liechty, R., Holstein herd 797
Loizeaux, R. and C., Ayrshire herd 885
Nauman, R., Jersey herd 1225
Ninmann, L. 936
Piper, D. 936
Piper Brothers Farm 933
Powell, Wm., Holsteins 541
Rodgers, J., Plum Bottom Dairy Farm, Inc. 337
Scott, Mrs. Edgar, Ayrshire calves 485
Seipt, D., Holstein herd 1001
Tennessee Dairy Experiment Station Jersey herd 401
Twin Brook Farm Guernsey calf 1049
Ulrich, R. W., and Son Jersey herd 753
Viney Farms Brown Swiss 1161

PICTURED WERE . . .

Page
Adams, H. P. 1214
Affeldt, P. 584
Alagia, D. P., Jr. 34-406
Albrecht, R. D. 459
Archbold, J. 902
Armbruster, J. 497
Arrigoni, L. 1276
Ayrshire cow — Cove Creek Royal Bonnie 2nd 1178
Bachmann, D. 902
Baldi, E. J. 1203
Bartel, H. 902
Beauprez, Mr. and Mrs. J., and sons 1335
Becher, N. 69-561
Bird, R. A. 141
Bishop, R. 13
Blue, V. 1351
Boerema, G., family 13-639
Borgwardt, Mr. and Mrs. 902
Bremel, W. and I. 1124
Brink, M. F. 319
Brog, R. 1258
Brown, C. 986
Brown, K. 457
Brown, L. H. 1125
Brown Swiss cow — Royal's Muffin of Lee's Hill 771
-Schulte's Sunwise Pat 1178
Buck, H. W. 12
Burke, J. D. 210
Burkhalter, J. 1236
Burleson, L. 553
Butterbrodt, J. 1065-1254
Byrnes, J. 1031
Calbert, H. E. 1033
Campbell, J. P. 909
Carter, E. N. 547
Carter, H. W. 863
Cavanaugh, J. 826
Church, R. 68
Colebank, L. O. 644-741-1088
College — Cornell, judging team 1208
-South Dakota State University (winners in cow judging contest) 592
Cornelius, R. 720
Crough, Mary Kay 553
Davenport, Susan Wade 348
Dawdy, M. L. 741
Dechant, T. 1274
DeRose, A. 1254
Detch, C. C. 811
Doyle, J. R. 1170
Drewitz, E. 1290
Duarte, J. 1068
Duvall, K. L. 697
Easterly, J. 1208
Edwards, F. 12
Emmons, D. B. 1033
Farr, C. 1273
Fisher, B. 101
Fisk, D. 1126
Fletcher, C. T. 697
Foley, T. 952
Foreman, F. 497
Forest, H. 32
4-H club — Montgomery Co. (winners in cow judging contest) 592
4-H judging team—Rock County, Wis. 1208
Friedman, M. 233
FFA chapter — Damascus, Md. (winners in cow judging contest) 592
Gashler, S. T. 313
Gates, Dr. N. L. 719
Gerdes, R. 761-770
Gerlach, D. 531
Gibson, D., Jr. 497-745
Goodman, L. and R. 1038
Graf, T. 717
Graham, D. M. 1033
Grossi, R. 1098
Guernsey cow—Fox Run A.F.C. Faye 1147
-Paula's Viscount Paulette 1179
Haberland, E. T. 902
Haining, Joyce Diana, and cow 196
Hall, R., and sons 1180
Hansen, H. J. 591
Happke, R. 1336
Hardin, C. M. 116-491-639
Harmon, L. G. 1033
Hay, S. B., Jr. 559
Hays, J. 154
Healy, P. 32
Henderson, C. R. 1026
Herman, H. 741
Hirsch, E. 141
Hollender, H. A. 1033
Holstein cow — C Craigo Christine Rockman 1181
-grade 981
-Kanza Matt Tippy 1127
-"Old Betsy" 1256
-Reinharts Arthur-Farms Ballad 94
-Skagvale Graceful Hattie 1181
-Sunnyside Frieda Fay Standout 902
Holstein heifer — Diamond J. Ivy Telstar 862
Holterman, Mr. and Mrs. 128
Hoopes, L. N. 319
Hopkins, F. 1088
Householder, G. M. 1088
Hughes, R. 493
Hutchinson, J. 1063
Janssen, G. 284
Jersey cow—Etta's Master Babe 1179
-L.R.U.G. Faith 498
Johnson, R. E. 559
Johnson, S. 717
Johnson, W. S. 1203
Jones, W. B. 639
Kastendieck, C. 1237
Kaufman, J. 68
Keener, H. 1011
Kincheloe, J. 1009
Kool, W. 1280
Kramer, R. D. 659
Krogstad, Gayle (American Dairy Princess) 851
Lake, G. 32-546-899-1168
Larson, N. 520
LaSalle, G., P., and R. 1254
Laughlin, G. 1284
Ledford, V. F. 101
Lewis, R. G. 1274
Loewith, H. C., and J. 12
Lutwak, L. 1126
Lyon, G. J. 826
Macomber, V., B. and D. 1281
Magnussen, N. 1088
Mason, J. 891
Mathis, A. G. 237
McClelland, W. T. 1088
Meeks, E. R. 728
Mehren, G. L. 984
Mellinger, J. 1142A (E)
Menz, W. W. 1033
Metzger, M. R. 1280
Michaelis, M. and D. 1281
Mills, W. 1031
Morgan, B. F., Jr. 406
Morris, J. 1148
Moser, J. 34-1120
Nelson, H. 902
Nesseth, B. 1063
Nesseth, C. 1063
Nichols, J. R. 1142A (E)
Nierman, H. and R. 357
Nixon, Pres. 116-491-639-1065
Noland, L. 719
Notter, W., Jr. 1290
Oosterhof, J., family 951
Ostrander, M. and D. 1209
Ottoson, D. 1063
Parr, D. 1120
Parsons, R. 1177
Pedersen, E. 1276
Pederson, G. N. 1170
Petersen, W. E. 532
Pfeiffer, R. 902
Phillips, N. 898
Plog, J. F. 635
Poetker, E. 1256
Polinder, F., Jr. 531
Porter, L. 497
Powell, W. 345-1254
Price, R. B. 1088
Purcell, J. C. 199
Ray, S., and sons 1176
Red and White Holstein cow — Leedie Houme Bee Red 1209
Red and White Holstein heifer — Redline Carlan Red 1209
Redding, L. 1336
Reeves, J. L. 984
Regli, A. 1237
Reuhl, G. B. 1351
Rhoads, A. F. 180
Rhode, G. 1274
Roberts, W. M. 1033
Robison, C. 531
Rodman, B. D. 870
Rose, H. 1282
Rumler, R. H. 861
Russell, W. A. 870
Salesman, J. 301
Salley, R. G., and son 559
Sawyer, W. 1305
Schmidtknecht, B., G., and G., and calf 799
Schnitzler, C. 720
Scott, E. 896
Searle, M. 1177
Seipt, D. and G. 1011-1018
Shorthorn — Australian Illawarra (Sunny View Little Princess 30th) 45
Shumake, S. 719
Smith, E. B. 165
Smith, N. 1009
Snyder, M. A. 799
Sowerby, M. B. 644
Spangler, V., J., and D. 413
Speicher, J. 1125
Sprecher, M. 471
Stevens, A. 531
Strobel, D. 1012
Sweet Pea 490
Swett, S. 891
Stalbaum, L. 908
Tateyama, H. 1290
Teague, F. 531
Teeple, L. 12
Tenneson brothers 1181
Tessmer, G. 1237
Thomson, A. C. 861
Trigg, L. B. and L. J. 1337
Truxillo, M. M. 101
Turner, R. S. 547
Tuttle, R. 1177
Van Dyk, C. 1239
Veiderman, P. 1350
Walbert, Mr. and Mrs. F., and Stephen 553
Ward, A. 1085
Webb, D. W. 971
Weddle, S. J., and sons 980
Wheeler, W. S. 39
Wilcox, J. 69
Wildesen, J. 1148
Wiley, P. 1236
Younger, D. 497